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Information relating to movement control can be interchanged by means of real-time cross-communication between the control functional units. An Ethernet link can be used for real-time cross-communication. The use of the data transmission system for printing machines also represents an advantageous application of the invention.—

A "Version With Marked Changes Made" is submitted

herewith.

IN THE CLAIMS:

Cancel claims 1-5.

Add the following new claims 6-12:

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--6. A data transmission system for use in a machine having a plurality of drive systems, comprising,

a control functional unit associated with each drive system, and

a network interconnecting said control functional units for real time cross-communication there between,

whereby information relating to movement control from any one of said control functional units is simultaneously transmitted to all of the other of said control functional units.

7. The data transmission system according to claim 6, wherein the real-time cross-communication can be carried out using Ethernet links.

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8. The data transmission system according to claim 6, wherein the control functional units can be synchronized by means of Ethernet real-time cross-communication.
 9. The data transmission system according to claim 6, wherein data and synchronization signals from drive regulators can be interchanged with an associated control functional unit using Ethernet real-time communication.
 10. The data transmission system according to claim 6, wherein the machine is a printing machine.—
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A "Version With Marked Changes Made" is submitted herewith.